

# Accident / Incident Report Pending Approval



Unit/Department	Process Area	Site	Report Number
South Operation-Elyria	General Catalyst – Building 16	ELYRIA	0084-SOPS-16-0189
Report Date	Incident Date	Incident Time	Copied From
09/19/2016	09/19/2016	06:00 AM	
Incident Location	Team Leader / Supervisor	Reported By	
Trimer Scrubber	Brian Beller	Brian Beller	
Title of Event (Limit to 90 characters)	Category	Division / Bus. Group / Subgroup Code	
Trimer stack - Yellow	<input type="checkbox"/> Safety & Health <input type="checkbox"/> Environmental	CC / G-CCP	
Incident Classification			
<input type="checkbox"/> Near Miss <input checked="" type="checkbox"/> Process Safety <input type="checkbox"/> Injury / Illness <input checked="" type="checkbox"/> Spill / Release <input type="checkbox"/> Permit / Regulatory Deviation <input type="checkbox"/> Fire <input type="checkbox"/> Odor Complaint <input type="checkbox"/> Property Loss <input type="checkbox"/> Citation / NOV <input type="checkbox"/> Health Exposure <input type="checkbox"/> Inspection <input type="checkbox"/> Major Incident <input type="checkbox"/> Non-Occupational <input type="checkbox"/> RMP <input type="checkbox"/> Contractor <input type="checkbox"/> Contractor Injury / Illness <input type="checkbox"/> Contract Injury / Illness <input type="checkbox"/> PSM <input type="checkbox"/> Plant Upset <input type="checkbox"/> EHS Management System Failure <input type="checkbox"/> Other			
Describe Event / What Happened			
While scrubbing #4 Calciner NI-4322 and #5 Calciner Cu-0539 to the trimer, the exhaust stack yellowed. Additional sulfide was added to the tanks 2/3 and yellow immediately went away. Stack was yellow for approx 5 minutes. Feed rates for #4 - 498 lbs/hr and #5 - 197 lbs/hr.			
Immediate Corrective Action or Response			
add sodium sulfide to tanks			
Immediate Cause			
ORP set point to high at -350 - lowered to -400			
Spill Release Type(s)	Non RQ Spill / Release		
Chemical(s) Involved	CAS #	Phy. State	Air Land Water Contmt Units
Nitrogen Dioxide (NOx)	10102-44-0	Gas	2.2 0 0 0 lbs
Disposition of Material	Released to air		
Weather Conditions	Skies:	Temperature:	Wind Direction: Wind Speed:
Cause Narrative			
NOX level increased above ORP setting for sulfide use therefore allowing the NOX to be under treated. Insufficient amount of NOX treating chemical. ORP setting increased allowing for increased sulfide and increased NOX treatment.			
Contributing Causes	Root/Primary Causes		
Low ORP setting for sulfide required to treat NOx.	138 - Human Factors Engineering	155 - Workload	158 - Knowledge-based Decision Required
Any known or potential off-site impacts?	No	PSM Incident?	No Estimated Cost: 1,000.00 USD
Investigation Team	William Grodecki; Tim Anglin; John Bodmann; Nancy Gallagher; Justin Quach; Kristen Kaput; Terrence M Vanderbosch; Jefferson Lewis; Robert Scoggins		
Approved By:			
Manager / Dept. Head Leon Zavodnik			
EHS Unit Coordinator Tim Anglin 10/05/2016 07:53 AM			

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# Accident / Incident Report      Final - Pending Items



Unit/Department	Process Area	Site	Report Number
South Operation-Elyria	General Catalyst – Building 31	ELYRIA	0084-SOPS-16-0185
Report Date	Incident Date	Incident Time	Copied From
09/14/2016	09/14/2016	06:30 AM	
Incident Location	Team Leader / Supervisor	Reported By	
Trimer Stack	Terrence M Vandersoch	John R Crawford	
Title of Event (Limit to 90 characters)	Category	Division / Bus. Group / Subgroup Code	
Trimer Stack Yellow	<input type="checkbox"/> Safety & Health <input type="checkbox"/> Environmental	CC / G-CCP	
Incident Classification			
<input type="checkbox"/> Near Miss <input type="checkbox"/> Property Loss <input type="checkbox"/> Contractor <input checked="" type="checkbox"/> Process Safety <input type="checkbox"/> Citation / NOV <input type="checkbox"/> Contractor Injury / Illness <input type="checkbox"/> Injury / Illness <input type="checkbox"/> Health Exposure <input type="checkbox"/> Contract Injury / Illness <input checked="" type="checkbox"/> Spill / Release <input type="checkbox"/> Inspection <input type="checkbox"/> PSM <input type="checkbox"/> Permit / Regulatory Deviation <input type="checkbox"/> Major Incident <input type="checkbox"/> Plant Upset <input type="checkbox"/> Fire <input type="checkbox"/> Non-Occupational <input type="checkbox"/> EHS Management System Failure <input type="checkbox"/> Odor Complaint <input type="checkbox"/> RMP <input type="checkbox"/> Other			
Describe Event / What Happened			
At around 6:30 AM the stack on Trimer scrubber turned yellow. The floor CRT went down and noticed that the ORP was set point was at -315 mV. The set point was then raised to -415 mV and the stack cleared. The release duration was about 5 mins and #4 Calciner was running to it with Ni 4322 second calcine and Cu 0539 on #5 Calciner.			
Immediate Corrective Action or Response			
Raise ORP set point up higher to introduce more Sulfide into the system			
Immediate Cause			
ORP setting too low for amount of NOx going to system. Could have just been a cumulative effect or a slug of high feed rate.			
Spill Release Type(s)			
Non RQ Spill / Release			
Chemical(s) Involved	CAS #	Phy. State	Air    Land    Water    Contmnt    Units
Nitrogen Dioxide (NOx)	10102-44-0	Gas	2.3    0    0    0    lbs
Disposition of Material	Released to Air		
Weather Conditions	Skies:	Temperature:	Wind Direction:    Wind Speed:
Cause Narrative			
When restarting the Trimer, the previous settings were used for the ORP due to similar products being run. This was later determined to be too low of a setting to scrub the amount of NOx that was being sent to the scrubber. According to the calculations for the products being run a set point closer to -400 should have been used. After running for a short period of time the system was not able to adequately treat the NOx that was being sent to it and subsequently the stack turned yellow.			
Contributing Causes		Root/Primary Causes	
Operators are required to make a decision on the set point for the ORP without a good understanding of the amount of NOx being treated.		138 - Human Factors Engineering    155 - Workload    158 - Knowledge-based Decision Required	
Any known or potential off-site impacts?	No	PSM Incident?	No    Estimated Cost: 1,000.00 USD
Investigation Team	Bill Grodecki; Kirk Sullenburger; Brian Beller; Rob Scoggins		

**Approved By:**

**Manager / Dept. Head Leon Zavodnik 10/03/2016 07:56 PM**

**EHS Unit Coordinator Tim Anglin 10/03/2016 12:19 PM**

**Ecology Nancy Gallagher**

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